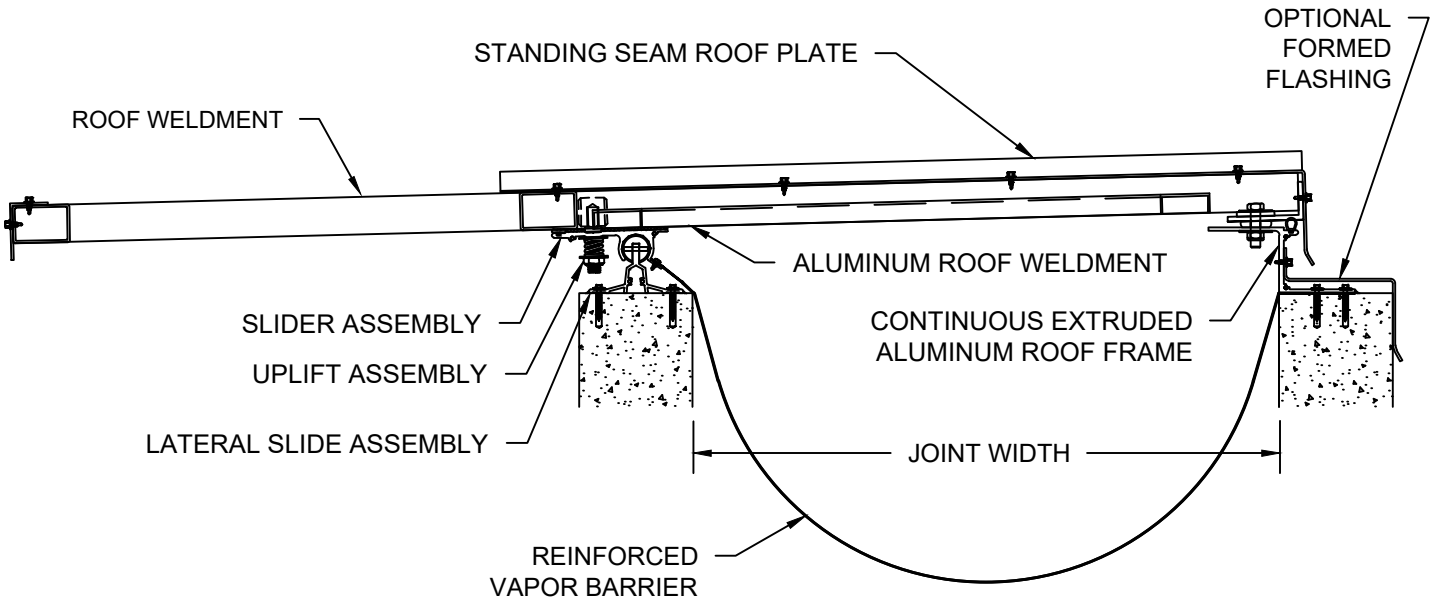
MODEL MARR 1800-3600 DYNAMIC ROOF COVER INSTALLATION INSTRUCTIONS



IMPORTANT INFORMATION

Prior to the commencement of Installation, all materials MUST be inspected for Damage. Any damage must be reported to CONSTRUCTION SPECIALTIES, INC., as soon as possible, so that replacement materials may be furnished without delay.

All work must be completed as per Architect's Approved "Shop Drawings", and in accordance with these Installation Instructions. When installation is complete, all materials must be protected from damage until the Architect's FINAL INSPECTION.

All materials should be arranged in the order that they are to be installed. All hardware required for each portion of the work should be placed with the appropriate materials.

Please review all Approved Shop Drawings and this Document to familiarize yourself with all the details and components of this assembly.

IMPORTANT:

READ THROUGH ALL INSTRUCTIONS PRIOR TO STARTING INSTALLATION

2/27/19

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Notes

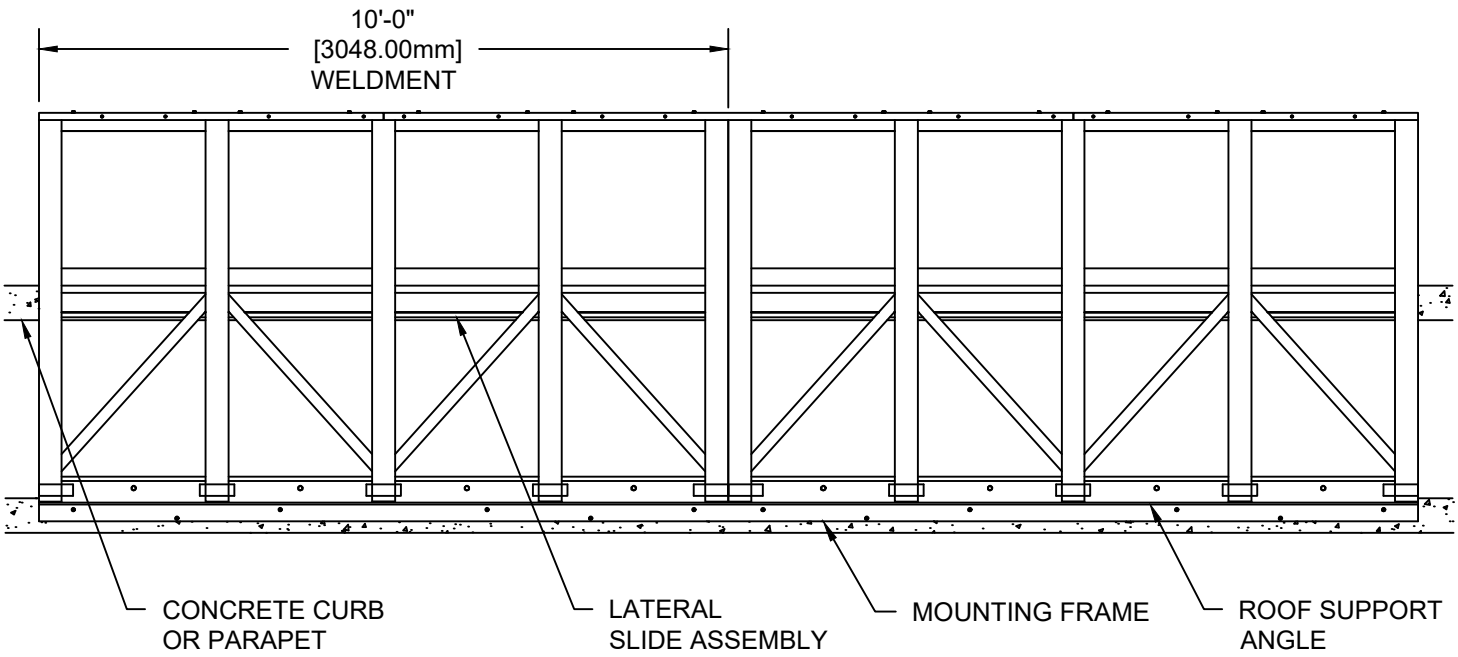
Before beginning installation, review the architectural drawings and approved Construction Specialties Inc. shop drawings to familiarize yourself with the joint cover models and locations.

Check all of the joint cover components to confirm that the correct joint cover model and size have been received. Also, check for materials that may have been damaged during shipping. Report all incorrect and/or damaged components to CS at 800-233-8493.

Read through all the steps of these instructions prior to beginning work.

Check the joint to make sure that it is clear of any materials that will impede the installation of the roof cover. Make sure that the area around the joint is clean and accessible.

INSTALLATION NOTES AND TOOLS



TOOLS:

The following tools may be required for installation of the MARR Roof Cover:

- Chalk line
- Measuring Tape
- Level
- Tin Snips
- Hammer
- Permanent Marker
- Utility Knife
- Circular and/or Chop Saw (with standard and abrasive blades)
- Drill
- Duct Tape
- Screw Drivers
- 1/2" Wrench

1. Before beginning installation it is necessary to establish the orientation of the Lateral Slide Assembly and the Mounting Frame.

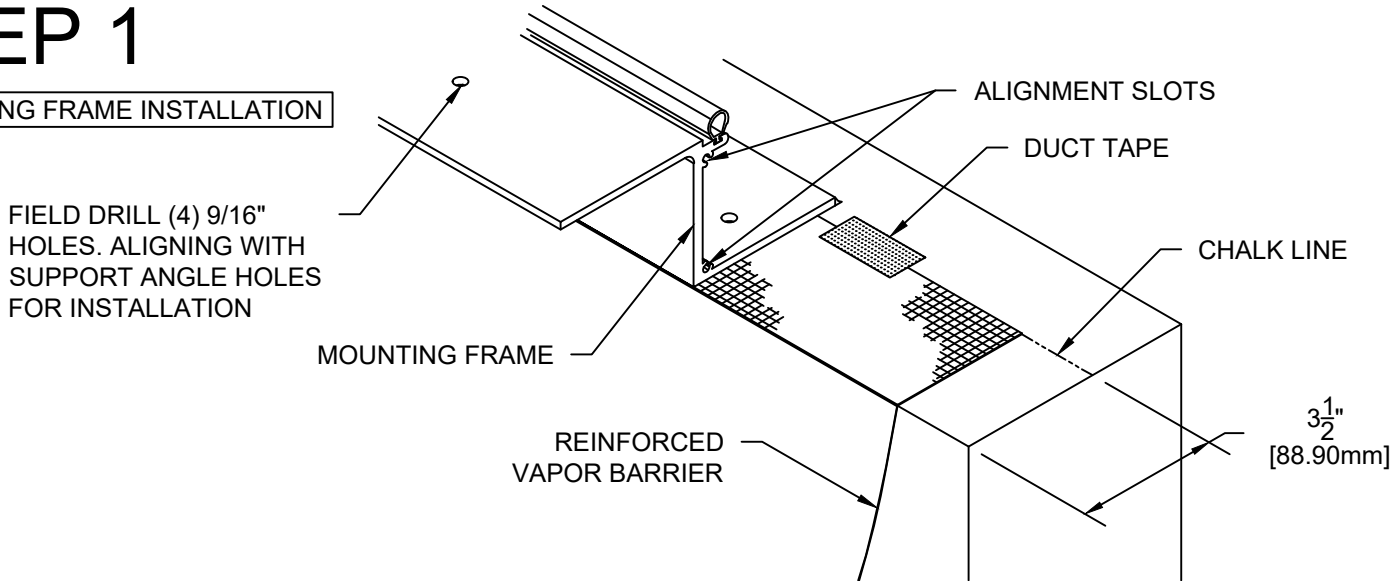
2. Check the architectural drawings and the approved CS shop drawings for specific locations to receive the Lateral Slide Assembly and Mounting Frame.

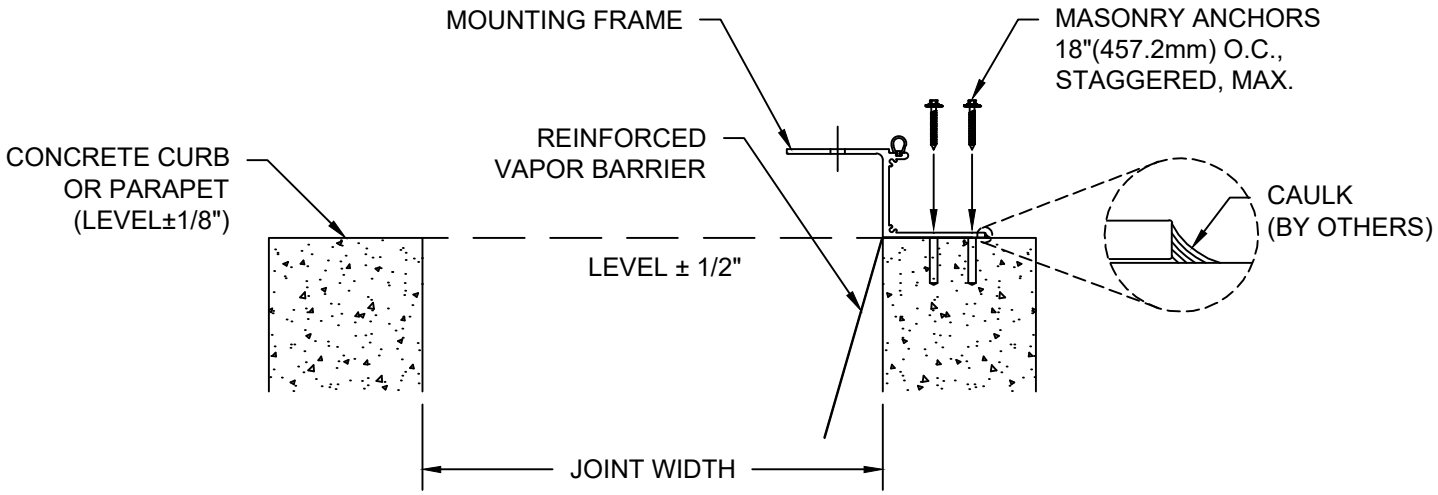
3. With the Mounting Frame location established, the Roof Weldments must be oriented to the Mounting Frame so the attachment to the Lateral Slide Assembly and Mounting Frame can be made properly.

4. The Mounting Frame must be mounted flush and parallel to the top of the Concrete Curb/ Parapet (See Step 1).

STEP 1

MOUNTING FRAME INSTALLATION





Step 1:

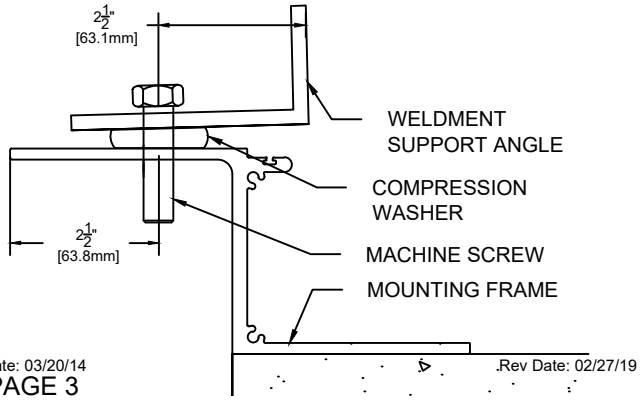
1.1) Begin installation of the Mounting Frames by first establishing the center of run and marking its location. Transfer this point to the opposite side of the joint for Step 2.

1.2) Strike a chalk line 3 1/2" back from the edge of the joint and parallel with joint. Position a continuous length of Reinforced Vapor Barrier even with and along the entire chalk line. Use duct tape to hold temporarily in place.

1.3) Center a length of the Mounting Frame over the established centerline. The Frame should be flush and parallel with the edge of the joint and level (See details above).

1.4) Using the Frame as a template, mark the location of the CS supplied masonry fasteners, remove Frame and drill using the CS supplied masonry bit per manufacturer's guidelines.

1.5) Mounting Frame (see detail below) drill four (4) 9/16" holes for supplied CS machine screws 1/2" in on frame, 1'-4 1/2" from each end and 2'-5" on center, for a 10' weldment section. Mounting Frame holes and Weldment Support Angle holes are to align.



STEP 1 Con't

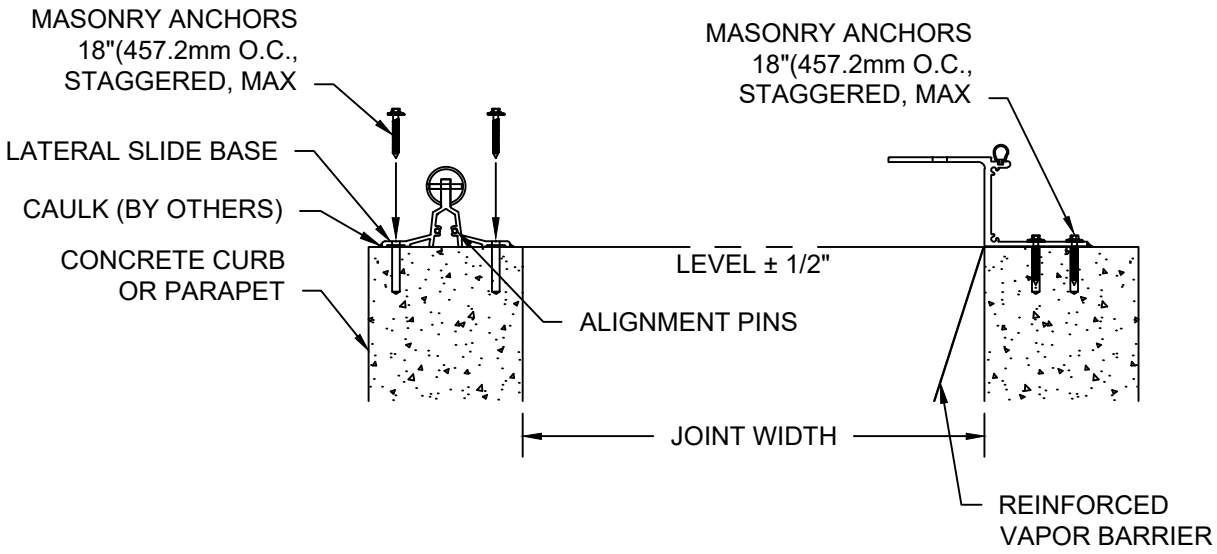
MOUNTING FRAME INSTALLATION

1.6) Reposition the Frame and attach both the Frame and Vapor Barrier using the CS supplied Masonry Tapper and Sealing Washers per manufacturer's guidelines. Apply a continuous bead of caulk running down the length of the frame as shown in detail.

1.7) For additional lengths of the Mounting Frame, insert grooved end of alignment pins into the alignment slots, approximately 1/2 of it's length. (See CS supplied installation instructions 12AX on how to splice or install drain in Vapor Barrier.) Follow installation Steps 1: for drilling and slide frame to align with grooved alignment pins installed in the previous length.

STEP 2

LATERAL SLIDE BASE INSTALLATION



Step 2:

2.1) Begin installation of the Lateral Slide Assembly by first placing a length of the Lateral Slide Base on top of the Concrete Curb/Parapet. The part must be parallel to the Roof Support Angle and level. Using the Lateral Slide Base as a template mark and drill the location of the holes for the CS supplied Masonry Tapper per manufacturer's guidelines using the CS supplied Masonry-bit.

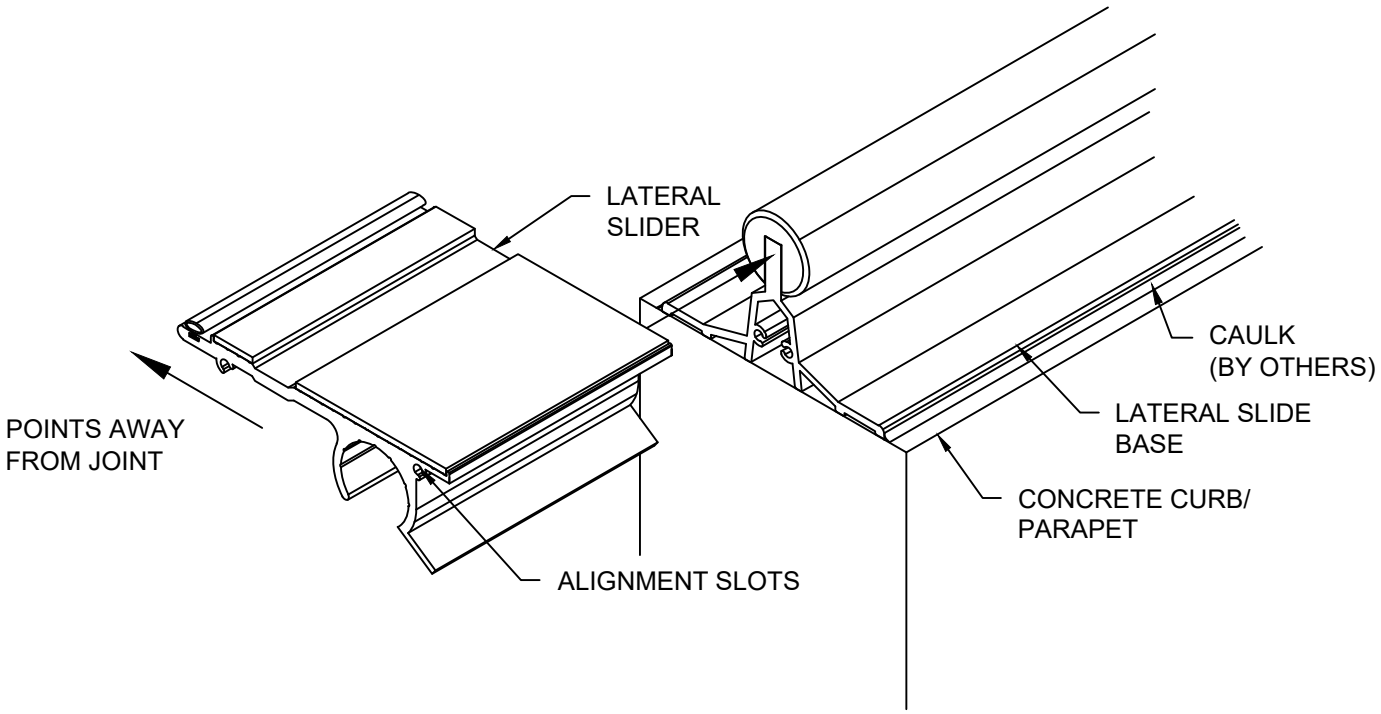
2.2) Attach the Lateral Slide Base using the CS supplied Masonry Tapper and Sealing Washers per manufacturer's guidelines. Shim and level as required. Apply caulk continuously to both sides of the Lateral Slide Base for additional water penetration prevention.

2.3) For additional lengths of the Lateral Slide Base, place grooved end of alignment pin in the alignment slot, approximately 1/2 of its length, of the Lateral Slide Base. Align additional lengths of Lateral Slide Base to the installed alignment pins of previous Lateral Slide Base for proper Alignment. Level and anchor as previously instructed.

2.4) Cut and remove any of the Lateral Slide Base that extends beyond the Concrete Curb/Parapet.

STEP 3

LATERAL SLIDER INSTALLATION



Step 3:

3.1) Begin installation of the Lateral Slider by sliding a piece on to the Lateral Slide Base. The extended leg is to face away from the joint as shown in detail above.

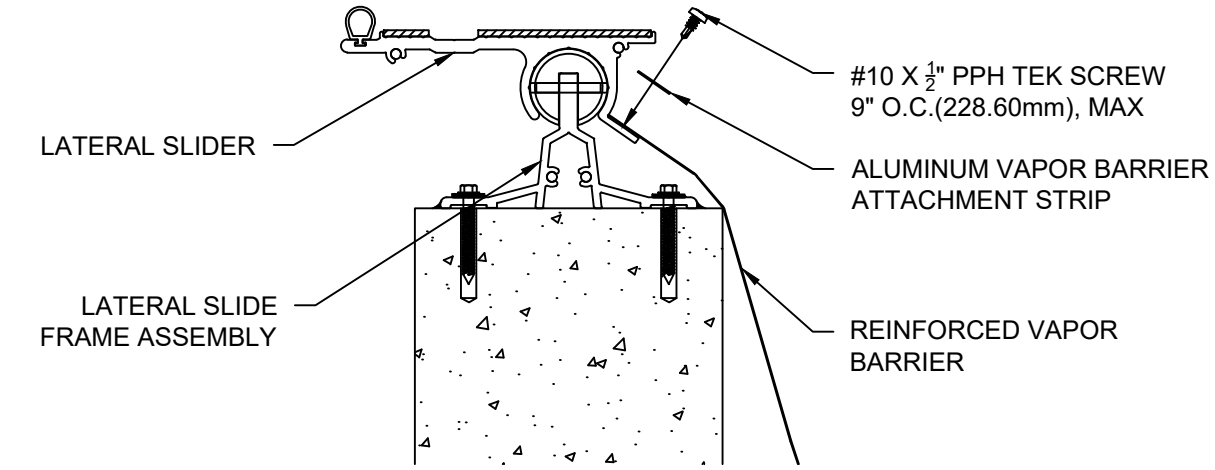
3.2) For installation of additional lengths of the Lateral Slider, insert the grooved end of alignment pins into the alignment slots, approximately 1/2 of its length.

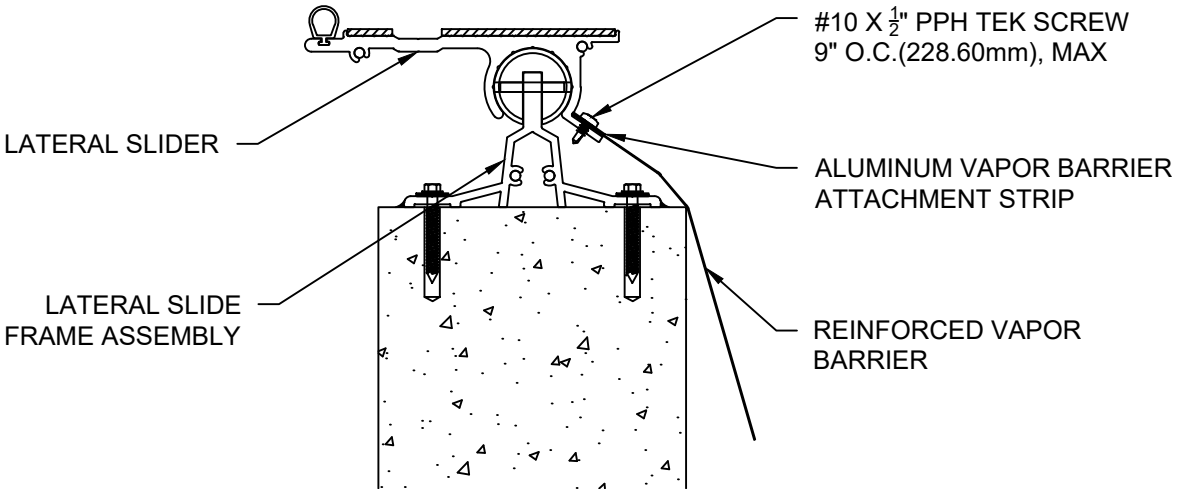
3.3) Slide another length of the Lateral Slider on to the Lateral Slide Base, align alignment slots with the alignment pins of the previous length of Slider for proper alignment at splices.

Notes:
The Lateral Slider should be parallel to the Roof Support Angle and slide freely over the entire length of the Lateral Slide Base.

STEP 4

VAPOR BARRIER INSTALLATION





Step 4:

4.1) Begin installation of the Reinforced Vapor Barrier to the Lateral Slide Assembly by first taping the Vapor Barrier to the aluminum Assembly to hold in place.

4.2) Next place the Aluminum Vapor Barrier Attachment Strip on top of the Vapor Barrier as shown in detail above and attach using the CS supplied Tek Screws per Manufacturer's guidelines through the pre-drilled holes.

4.3) Refer to the CS supplied installation instruction 12AX for the Vapor Barrier splicing and drain instructions.

STEP 5

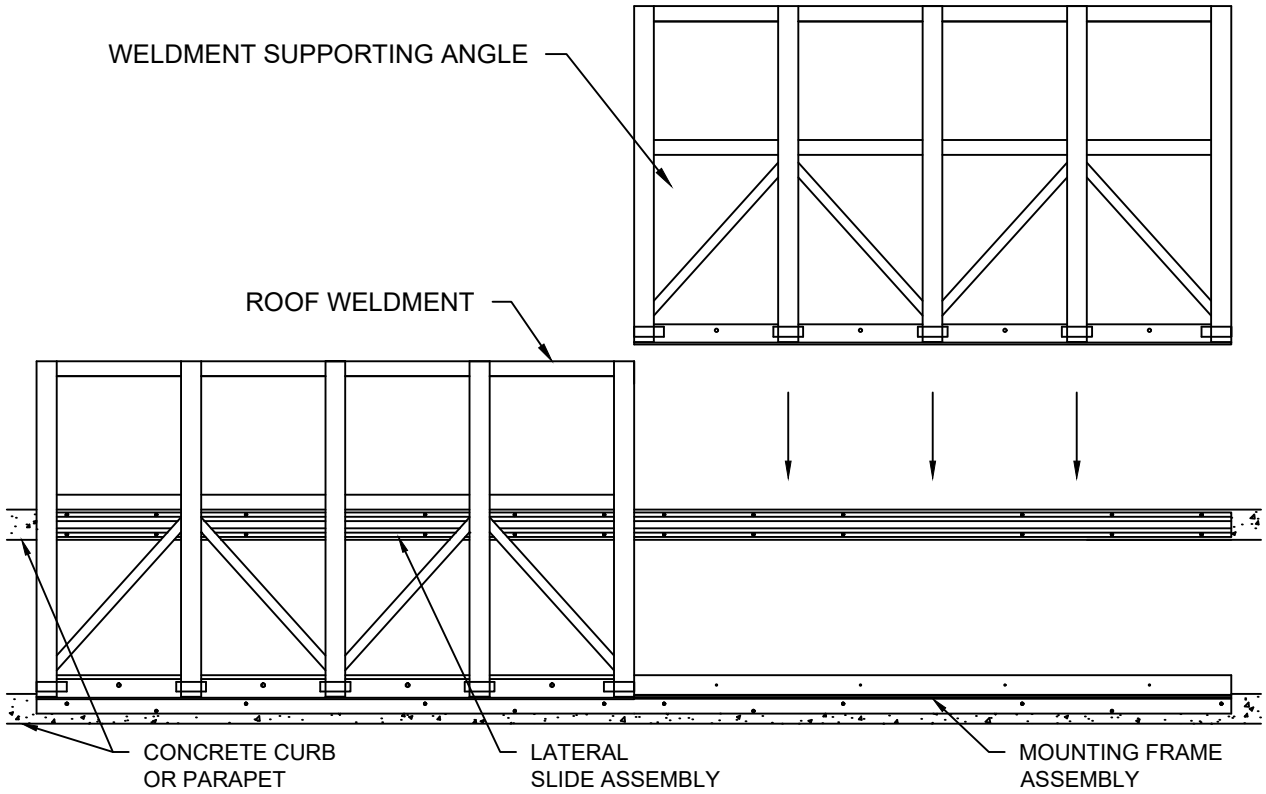
MOUNTING FRAME /ROOF WELDMENT INSTALLATION

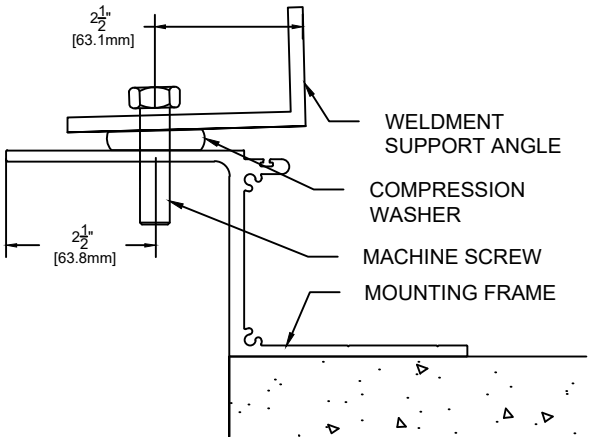
Step 5:

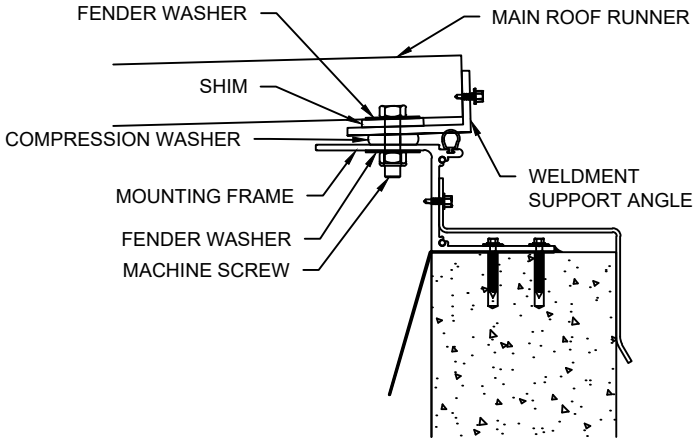
5.1) Begin installation of the Roof Weldment by aligning the holes of the Roof Weldment's Support Angle with the holes in the Mounting Frame. (See details below)

5.2) Place a Neoprene Spacer between the Weldment's Support Angle and Mounting Frame and attach using the CS supplied Machine screw, S/S Fender Washer, Rubber Compression Washer and Lock Nut, in detail below.

5.3) Repeat these installation instructions for any additional lengths of the Roof Weldments.

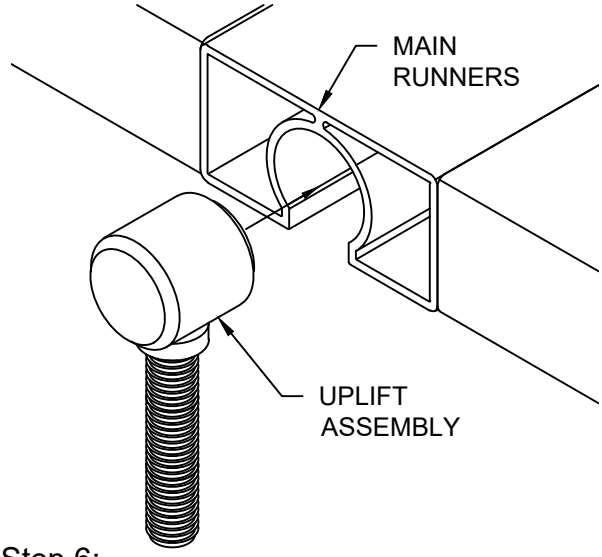


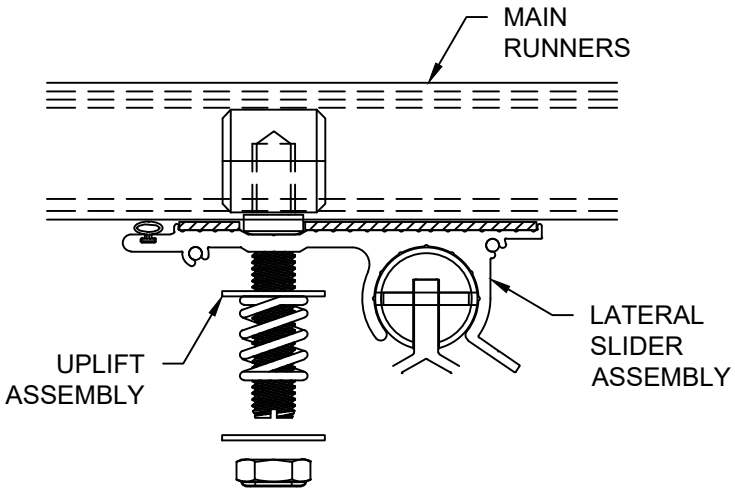




STEP 6

UPLIFT ASSEMBLY INSTALLATION





Step 6:

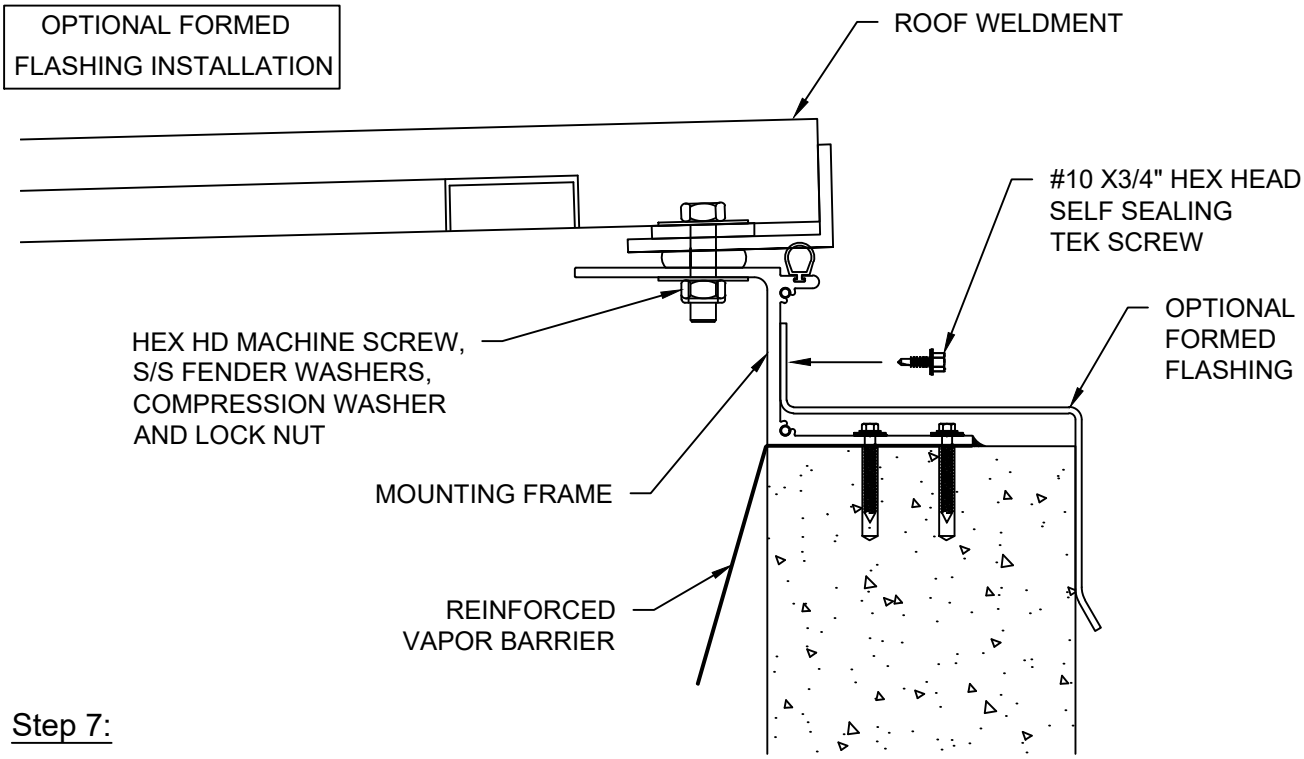
6.1) Slide a Uplift Assembly into each of the Main Runners that make up the Roof Weldment, until they reach the Lateral Slide Assembly.

6.2) Lift the free end of the Roof Weldment and insert the threaded portion of the Uplift Assembly into the holes in the Lateral Slider. Lower the Weldment so it rests back on the Lateral Slide Assembly.

6.3) Place a Washer, Spring, Washer, and Lock Nut on the bottom stud of the Uplift Assembly and tighten until the spring is slightly compressed.

STEP 7

OPTIONAL FORMED
FLASHING INSTALLATION



Step 7:

7.1) Begin installation of the Optional Formed Flashing by first centering a length of the Flashing over the Mounting Frames butt joint.

7.2) Attach the Optional Formed Flashing using the CS supplied Self Sealing Tek Screws per Manufacturer's guidelines in pre-drilled holes.

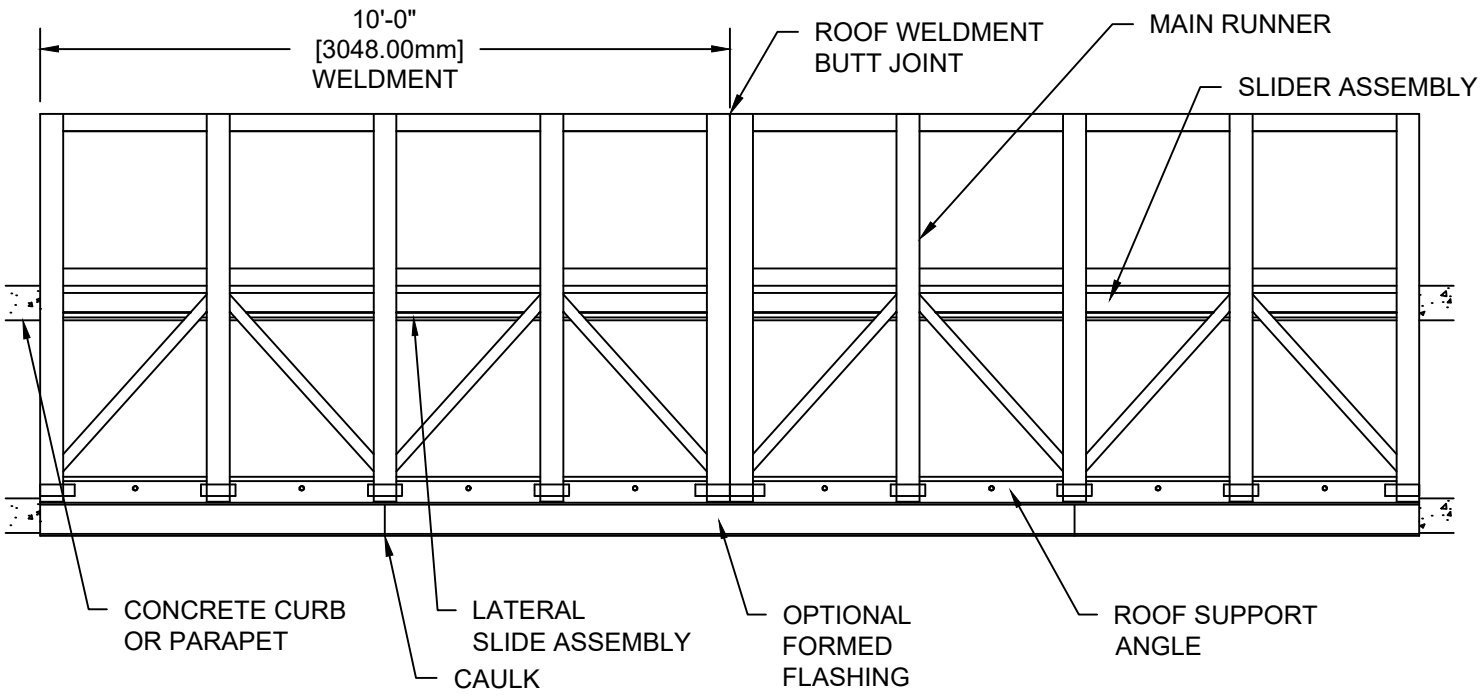
STEP 7 Con't

OPTIONAL FORMED
FLASHING INSTALLATION

Step 7:

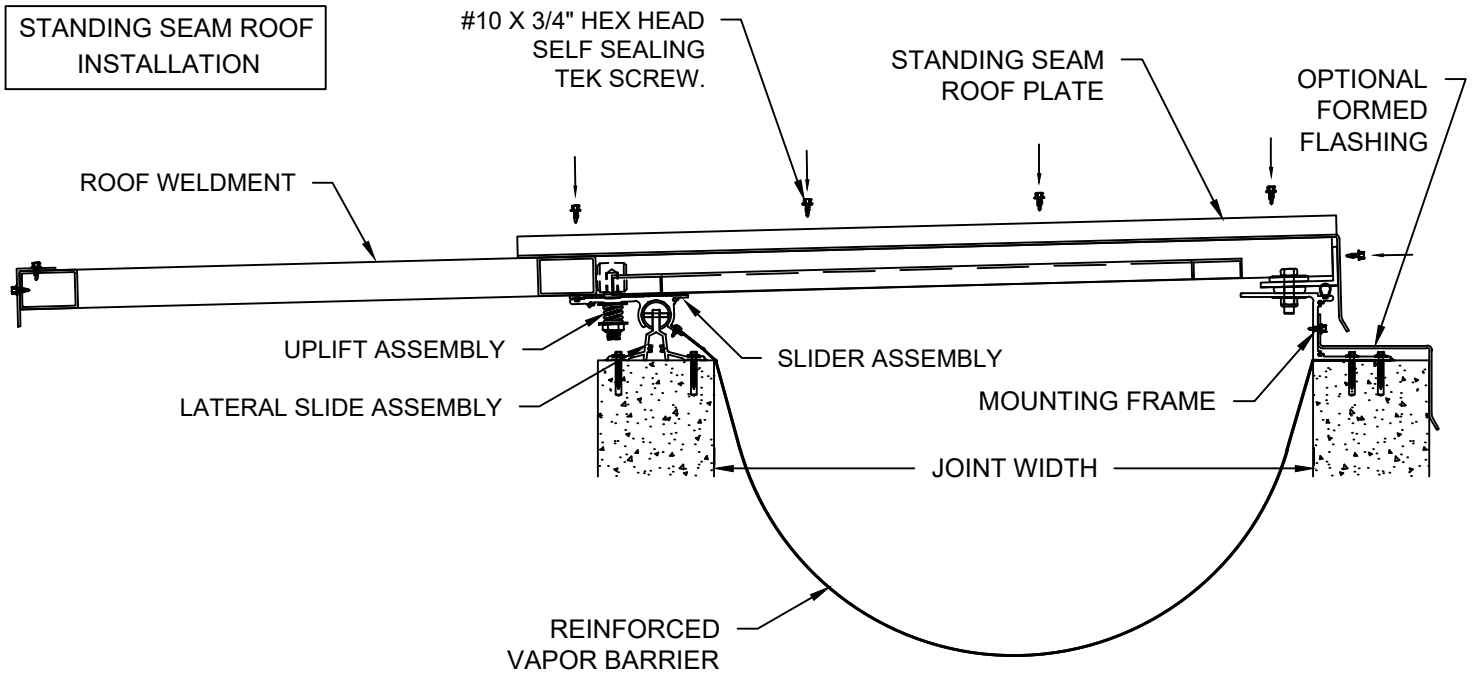
7.3) Apply a continuous bead of caulk (not by CS) at splice locations.

7.4) Repeat these installation instructions for any additional lengths of the Optional Formed Flashing. Cut off any excess material.



STEP 8

STANDING SEAM ROOF INSTALLATION



Step 8:

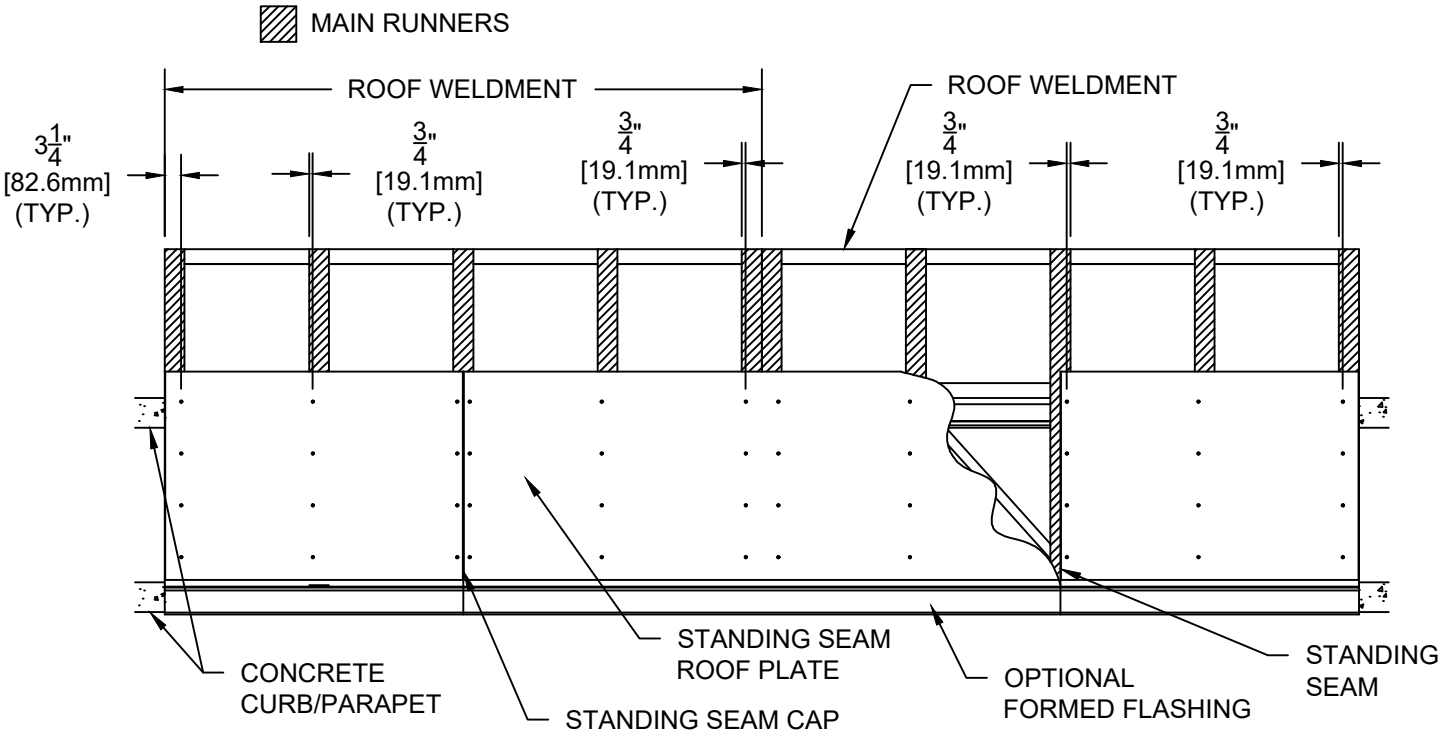
8.1) Beginning at the centerline of the run, place a Standing Seam Roof Plate onto Roof Weldment as shown in details. Align one edge with the centerline of Roof Weldments runner.

8.2) Attach the Standing Seam Roof Plates to the Main Runners of the Roof Weldment using Self Sealing Tek Screws 3/4" from edge as shown below. Do not fasten directly in middle of the Main Runners as this will cause interference during movement.

8.3) Fasten overhang of Standing Seam Roof Plate to end of weldment, as shown above, using 7 - Self Sealing Tek Screws 6" from end end and 1'-6' o.c. Repeat until all of the Roof Plates are installed.

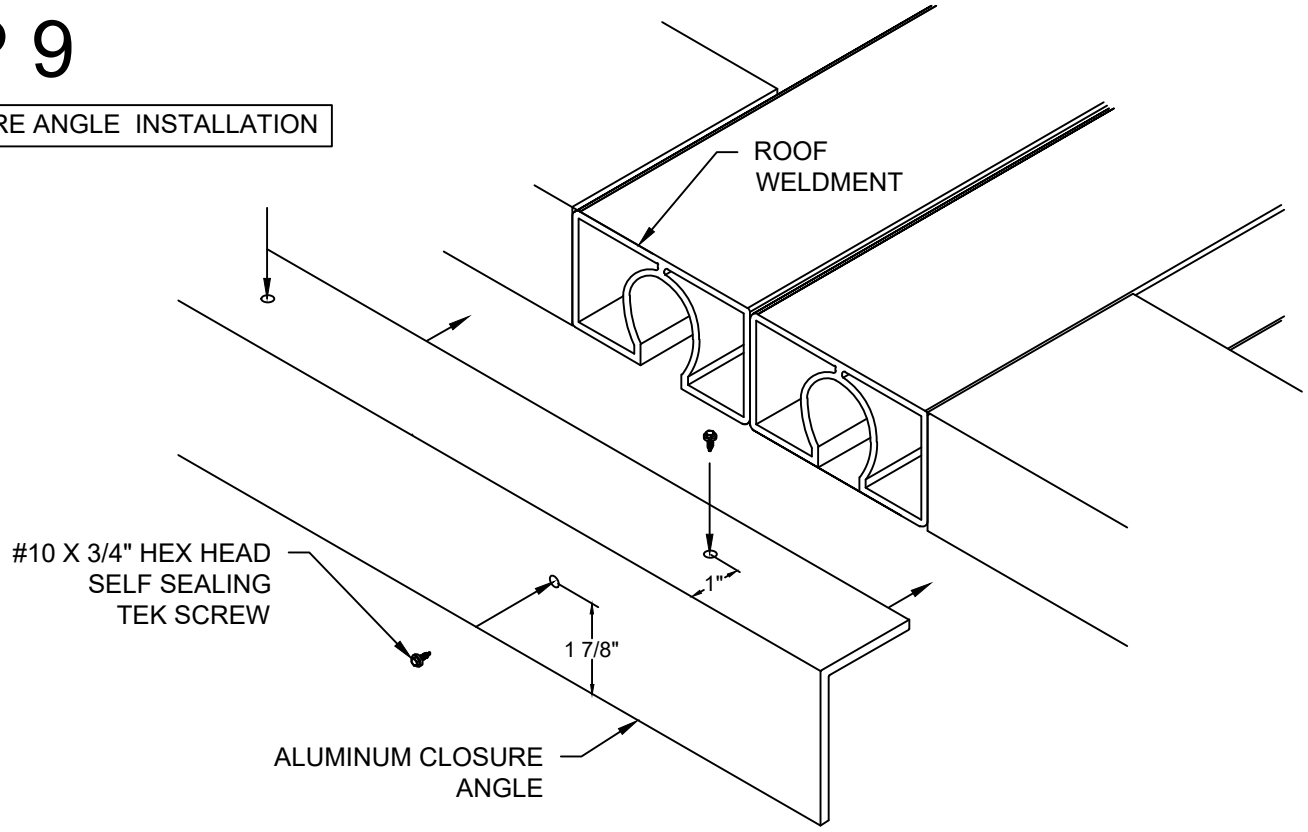
8.4) Apply a bead of Silicon Caulk (not by CS) to the inside of the Standing Seam Cap.

8.5) Press the Standing Seam Cap down onto the standing seams of the butted Roof Plates sealing and joining the seam.



STEP 9

ALUM. CLOSURE ANGLE INSTALLATION

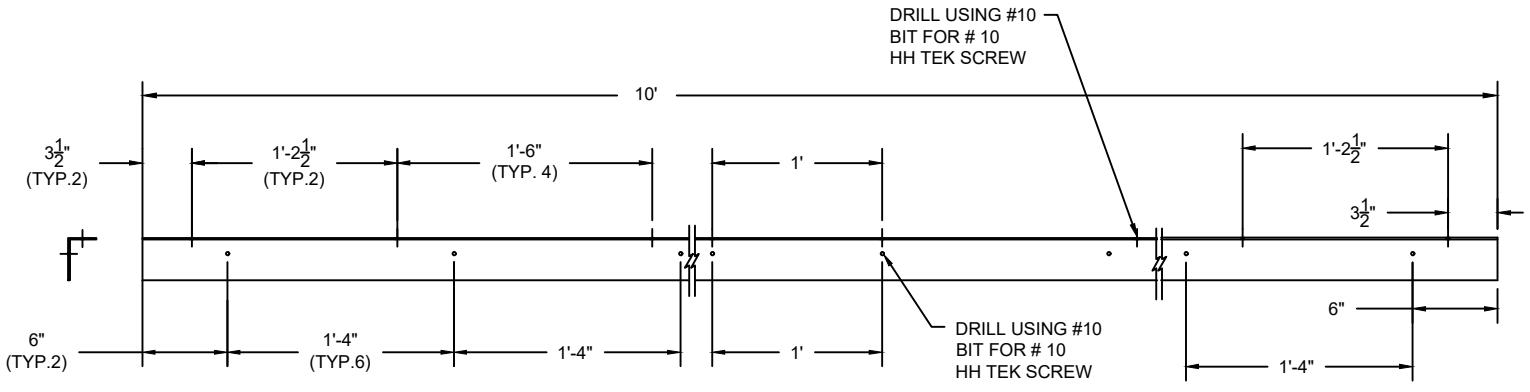


Step 9:

9.1) Field drill Aluminum Closure Angle for Self Sealing Tek Screws located into the Roof Weldments on the top and face per manufacturer's guidelines for 10' length. (See detail below for drilling / hole locations) * Do not fasten on top directly in the middle of the Main Runners as this will cause interference during movement.

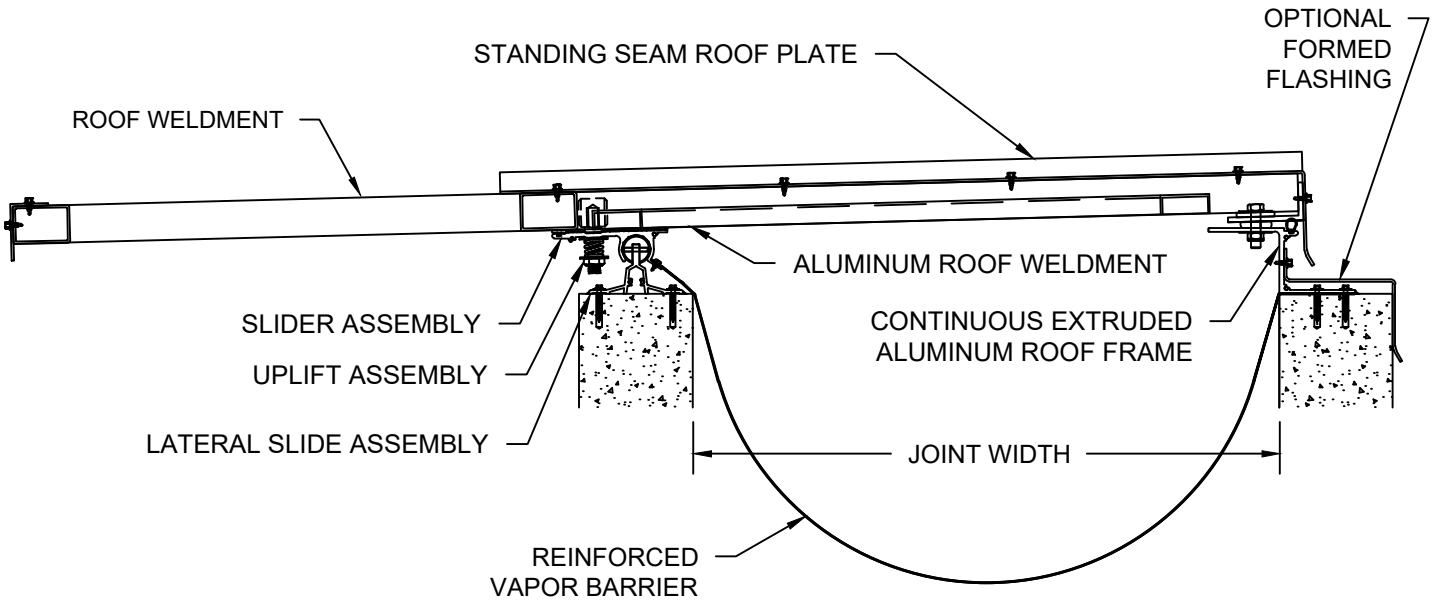
9.2) Beginning at the centerline of the run, center a Aluminum Closure Angle over the butt joint between the Roof Weldments at the over hanging end of the cover assembly.

9.3) Position and attach the remaining lengths of angle. Then cut and remove any of the angle that extends beyond the end of the Weldment assembly.



STEP 10

COMPLETE INSTALLATION



Step 10:

10.1) Installation of the CS Roof Expansion Joint Cover has been completed, remove all residue and foreign matter from the area and joint cover.

10.2) Clean the CS Joint Cover and adjoining surfaces with proper cleaner.

10.3) Protect the Joint Cover until the Architect's final inspection.